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10/693,857	10/24/03	Stephen Kay	KARMA 3.1-003US

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IN THE CLAIMS

Claims 15-80 are pending in this application as presented below. Please amend claims 66-68 as marked below.

15. (Previously Added) A general purpose computer-based system for generating musical information having at least one computer memory, said system comprising:

a plurality of data item patterns stored in said at least one computer memory, each data item pattern including a plurality of data items representing at least one characteristic of said musical information;

a phase pattern stored in said at least one computer memory, said phase pattern including a plurality of phase pattern steps, each phase pattern step indicating at least one of said data item patterns;

a phase pattern index indicating a current phase pattern step; and

a processor for selecting said data item pattern indicated by said current phase pattern step and utilizing said selected data item pattern in generating said musical information, said processor moving said phase pattern index to a next phase pattern step.

16. (Previously Added) The system of claim 15 wherein said characteristic is rhythm and said data items comprise rhythm values.

17. (Previously Added) The system of claim 15 wherein said characteristic is duration and said data items comprise duration values.

18. (Previously Added) The system of claim 15 wherein said characteristic is pitch and said data items comprise pitch values.

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19. (Previously Added) The system of claim 15 wherein said characteristic is percussive sounds and said data items comprise percussion instrument identifiers.

20. (Previously Added) The system of claim 15 wherein said characteristic is amplitude and said data items comprise velocity values.

21. (Previously Added) The system of claim 15 wherein said characteristic is spatial location and said data items comprise spatial location values.

22. (Previously Added) The system of claim 15 wherein said characteristic is musical instrument sounds and said data items comprise voice change values.

23. (Previously Added) The system of claim 15 wherein said characteristic is a MIDI controlled characteristic and said data items comprise MIDI control values.

24. (Previously Added) The system of claim 15 wherein said characteristic is audio sound and said data items comprise digital audio samples.

25. (Previously Added) The system of claim 15 wherein said characteristic is pitch transposition and said data items comprise pitch transposition values.

26. (Previously Added) The system of claim 15 wherein said characteristic is a quantity of musical information to be generated and said data items comprise cluster values.

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a plurality of second data item patterns stored in said at least one computer memory, each of said second data item patterns including a plurality of second data items representing a second characteristic of said musical information;

a plurality of phases stored in said at least one computer memory, each phase including at least one of said first data item patterns and at least one of said second data item patterns;

a user-operated control for selecting one of said phases; and

a processor for generating said musical information utilizing said first and second data item patterns included in said selected phase.

29. (Previously Added) The system of claim 27 or 28 wherein said first characteristic is rhythm and said first data items comprise rhythm values, and said second characteristic is pitch and said second data items comprise pitch values.

30. (Previously Added) The system of claim 27 or 28 wherein said first characteristic is pitch and said first data items comprise pitch values, and said second characteristic is amplitude and said second data items comprise velocity values.

31. (Previously Added) The system of claim 27 or 28 wherein said first characteristic is audio sound and said first data items comprise digital audio samples, and said second characteristic is pitch transposition and said second data items comprise pitch transposition values.

32. (Previously Added) The system of claim 15 or 27 wherein said movement of said phase pattern index is performed at the completion of a specific period of time.

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33. (Previously Added) The system of claim 32 wherein said specific period of time is a number of clock events within said computer-based system.

34. (Previously Added) The system of claim 32 wherein said specific period of time is in reference to a musical time signature.

35. (Previously Added) The system of claim 15 or 27 wherein said movement of said phase pattern index is performed according to the generation of a specific quantity of said musical information.

36. (Previously Added) The system of claim 35 wherein said specific quantity is a number of musical notes.

37. (Previously Added) The system of claim 15 or 27 wherein said movement of said phase pattern index is performed in response to the generation of a specific value of said musical information.

38. (Previously Added) The system of claim 37 wherein said musical information contains pitch information and said specific value is a pitch value.

39. (Previously Added) The system of claim 15 or 27 wherein said movement of said phase pattern index is performed according to a user-operated control.

40. (Previously Added) The system of claim 15, 27 or 28 wherein said generated musical information is represented as MIDI data.

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41. (Previously Added) A method for generating musical information using a general purpose computer-based system having at least one computer memory, said method comprising:

storing a plurality of data item patterns in said at least one computer memory, each data item pattern including a plurality of data items representing at least one characteristic of said musical information;

storing a phase pattern in said at least one computer memory, said phase pattern including a plurality of phase pattern steps, each phase pattern step indicating at least one of said data item patterns;

indicating a current phase pattern step within said phase pattern with a phase pattern index;

selecting said data item pattern indicated by said current phase pattern step;

generating said musical information utilizing said selected data item pattern; and

moving said phase pattern index to a next phase pattern step.

42. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes specifying a musical rhythm according to said selected data item pattern.

43. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes specifying a note pitch according to said selected data item pattern.

44. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes specifying a note duration according to said selected data item pattern.

45. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes specifying a percussive sound according to said selected data item pattern.

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46. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes specifying a note velocity according to said selected data item pattern.

47. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes specifying a spatial location according to said selected data item pattern.

48. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes specifying an instrument voice according to said selected data item pattern.

49. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes varying a MIDI controllable characteristic according to said selected data item pattern.

50. (Previously Added) The method of claim 41 wherein said data items comprise digital audio samples and said step of generating said musical information includes producing an audio sound according to said selected data item pattern.

51. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes transposing a pitch of a note according to said selected data item pattern.

52. (Previously Added) The method of claim 41 wherein said step of generating said musical information includes outputting specific numbers of notes according to said selected data item pattern.

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53. (Previously Added) A method for generating musical information using a general purpose computer-based system having at least one computer memory, said method comprising:

storing a plurality of phases in said at least one computer memory, each phase including at least one data item pattern from a first plurality of data item patterns, said first data item pattern including a plurality of first data items representing a first characteristic of said musical information, said phase further including at least one data item pattern from a second plurality of data item patterns, said second data item pattern including a plurality of second data items representing a second characteristic of said musical information;

storing a phase pattern in said at least one computer memory, said phase pattern containing a plurality of phase pattern steps, each phase pattern step indicating at least one of said phases;

indicating a current phase pattern step within said phase pattern with a phase pattern index;

selecting said phase indicated by said current phase pattern step;

generating said musical information utilizing said first and said second data item patterns included in said selected phase; and

moving said phase pattern index to a next phase pattern step.

54. (Previously Added) A method for generating musical information using a general purpose computer-based system having at least one computer memory, said method comprising:

storing a plurality of phases in said at least one computer memory, each phase including at least one data item pattern from a first plurality of data item patterns, said first data item pattern including a plurality of first data items representing a first characteristic of said musical information, said phase further including at least one data item pattern from a second plurality of data item patterns, said second data item pattern including a plurality of second data items representing a second characteristic of said musical information;

storing a phase pattern in said at least one computer memory, said phase pattern containing a plurality of phase pattern steps, each phase pattern step indicating at least one of said phases;

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selecting a phase with a user–operated control; and

generating said musical information utilizing said first and said second data item patterns included in said selected phase.

55. (Previously Added) The method of claim 53 or 54 wherein said step of generating said musical information includes specifying a musical rhythm according to said first data item pattern and specifying a note pitch according to said second data item pattern.

56. (Previously Added) The method of claim 53 or 54 wherein said step of generating said musical information includes specifying a note pitch according to said first data item pattern and specifying a note velocity according to said second data item pattern.

57. (Previously Added) The method of claim 53 or 54 wherein said first data items comprise digital audio samples and said step of generating said musical information includes producing an audio sound according to said first data item pattern and transposing said audio sound according to said second data item pattern.

58. (Previously Added) The method of claim 41 or 53 wherein said step of generating said musical information includes waiting for a specific period of time before moving said phase pattern index to said next phase pattern item.

59. (Previously Added) The method of claim 41 or 53 wherein said step of generating said musical information includes waiting for a number of clock events within said computer-based system before moving

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60. (Previously Added) The method of claim 41 or 53 wherein said step of moving said phase pattern index is performed according to the generation of a specific quantity of said musical information.

61. (Previously Added) The method of claim 41 or 53 wherein said step of moving said phase pattern index is performed according to the generation of a specific number of musical notes within said musical information.

62. (Previously Added) The method of claim 41 or 53 wherein said step of moving said phase pattern index is performed in response to the generation of a specific value of said musical information.

63. (Previously Added) The method of claim 62 wherein said musical information contains pitch information and said specific value is a pitch value.

64. (Previously Added) The method of claim 41 or 53 wherein said step of moving said phase pattern index is performed according to a user-operated control.

65. (Previously Added) The method of claim 41, 53 or 54 wherein said generated musical information is represented as MIDI data.

66. (Presently Amended) A computer-readable media ~~for storing instructions for generating musical information comprising instructions for~~ having executable instructions for causing a processor to perform a method comprising:

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storing a plurality of data item patterns in said at least one computer memory, each data item pattern including a plurality of data items representing at least one characteristic of said musical information;

storing a phase pattern in said at least one computer memory, said phase pattern including a plurality of phase pattern steps, each phase pattern step indicating at least one of said data item patterns;

indicating a current phase pattern step within said phase pattern with a phase pattern index;

selecting said data item pattern indicated by said current phase pattern step;

generating said musical information utilizing said selected data item pattern; and

moving said phase pattern index to a next phase pattern step.

67. (Presently Amended) A computer-readable media ~~for storing instructions for generating musical information comprising instructions for~~ having executable instructions for causing a processor to perform a method comprising:

storing a plurality of phases in said at least one computer memory, each phase including at least one data item pattern from a first plurality of data item patterns, said first data item pattern including a plurality of first data items representing a first characteristic of said musical information, said phase further including at least one data item pattern from a second plurality of data item patterns, said second data item pattern including a plurality of second data items representing a second characteristic of said musical information;

storing a phase pattern in said at least one computer memory, said phase pattern containing a plurality of phase pattern steps, each phase pattern step indicating at least one of said phases;

indicating a current phase pattern step within said phase pattern with a phase pattern index;

selecting said phase indicated by said current phase pattern step;

generating said musical information utilizing said first and said second data item patterns included in said selected phase; and

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moving said phase pattern index to a next phase pattern step.

68. (Presently Amended) A computer-readable media ~~for storing instructions for generating~~ ~~musical information comprising instructions for~~ having executable instructions for causing a processor to perform a method comprising:

storing a plurality of phases in said at least one computer memory, each phase including at least one data item pattern from a first plurality of data item patterns, said first data item pattern including a plurality of first data items representing a first characteristic of said musical information, said phase further including at least one data item pattern from a second plurality of data item patterns, said second data item pattern including a plurality of second data items representing a second characteristic of said musical information;

storing a phase pattern in said at least one computer memory, said phase pattern containing a plurality of phase pattern steps, each phase pattern step indicating at least one of said phases;

selecting a phase with a user–operated control; and

generating said musical information utilizing said first and said second data item patterns included in said selected phase.

69. (Previously Added) The system of claim 15 or 16 wherein said current phase pattern step includes an additional data item associated with an additional operation, said additional data item indicating the performance of said additional operation in connection with the use of said selected data item pattern indicated by said current phase pattern step in generating said musical information.

70. (Previously Added) The system of claim 69 wherein said additional operation is an envelope function specifying a change in tempo over a period of time.

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71. (Previously Added) The system of claim 69 wherein said additional operation is an envelope function specifying a change in volume over a period of time.

72. (Previously Added) The system of claim 69 wherein said additional operation is an envelope function specifying a MIDI control change over a period of time.

73. (Previously Added) The system of claim 69 further including a pseudo-random number generator wherein said additional operation is a seeding of said pseudo-random number generator with a predetermined value.

74. (Previously Added) The system of claim 69 wherein said additional operation is a setting of a two-state variable used in generating said musical information, said two-state variable assuming one of the states of on or off.

75. (Previously Added) The method of claim 41 or 42 wherein said current phase pattern step includes an additional data item associated with an additional operation, said method further comprising performing said additional operation according to said additional data item while generating said musical information.

76. (Previously Added) The method of claim 75 wherein said additional operation is an envelope function specifying a change in tempo over a period of time.

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77. (Previously Added) The method of claim 75 wherein said additional operation is an envelope function specifying a change in volume over a period of time.

78. (Previously Added) The method of claim 75 wherein said additional operation is an envelope function specifying a MIDI control change over a period of time.

79. (Previously Added) The method of claim 75 wherein said additional operation is a seeding of a pseudo-random number generator within said system, said method further comprising generating said musical information utilizing said seeded pseudo-random number generator.

80. (Previously Added) The method of claim 75 wherein said additional operation is the setting of a two-state variable within said system to either an on position or an off position, said method further comprising generating said musical information utilizing said two-state variable.